

MDU

Munters Dehumidification Unit Modular air dehumidification system



Product description

The Munters Dehumidification Unit (MDU) offers extensive material and remark variety for the most different customized requirements for indoor and outdoor installation.

A complete MDU system, ready for operation, consists in the basic version of components for the pre-treatment, dehumidifying and the transport of the processing air as well as for the regeneration of the sorption rotor, completely on base framework, steel galvanized or of stainless steel, mounted. The individual components are executed in a double-walled, completely closed modular construction with intermediate heat-insulating and sound-absorbing insulation, non-inflammable according to DIN 4102. All casing parts are corrosion resistant by use of sendzimir galvanized steel sheet, aluminium and stainless steel. Each unit consists of a self-supporting and stable sectional frame construction with form-fitting panels inserted, easily removable from all sides, assembled in sandwich structure with form-stable, permanent elastic hollow-section rubber-seal. The inner surfaces are perfectly smooth. If required, systems are manufactured according to hygiene standards of VDI 6022.

The systems are completely examined by the factory, so that the delivered units can be easily installed locally and started.

Munters Rotor Technology

The heart of the air dehumidification system is the sorption rotor in which the humidity exchange takes place. It consists of a flame resistant and physiologically harmless substrate with firm high performance sorbent, which is an integrated component of the substrate. Each plant is equipped with a special technology, over which air flows, air conditions, rotor sectors and pressure ratios optimized to the customized requirements are adapted and thus operations at low dew points could be guaranteed. Innovative automatic control technique adapted to the requirements makes high performance and economic energy use possible

Product Information MDU

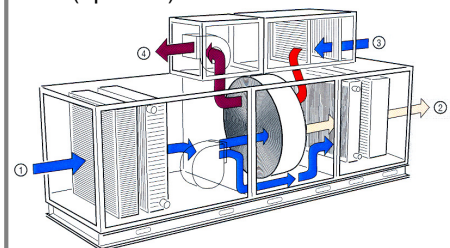
High performance and working reliability

- Modular air dehumidification system on the newest state of the art.
- If required manufactured according to VDI 6022.
- Customized options in material and execution according to the performance and hygiene requirements.
- Different regeneration air heater media -optimized operating cost.
- Insulated double-walled panels – heat-insulated and sound-absorbing.
- Customized control for full process integration.
- Simple maintenance and fast on-site service -high working reliability and long-term operation.

Example for System Design

Process air side (1 + 2):

- Filter
- Cooler
- Fan (before and after the Rotor)
- Sorption wheel
- After-cooler/ After-Heater/ Final filter
- Outlet connecting piece/ flap (optional)



Regeneration air side (3 + 4):

- Filter
- Heater (electrical/ vapour/ gas)
- Sorption wheel
- Fan
- Outlet connecting piece/ flap (optional)

